

Fig. 1  
PRIOR ART

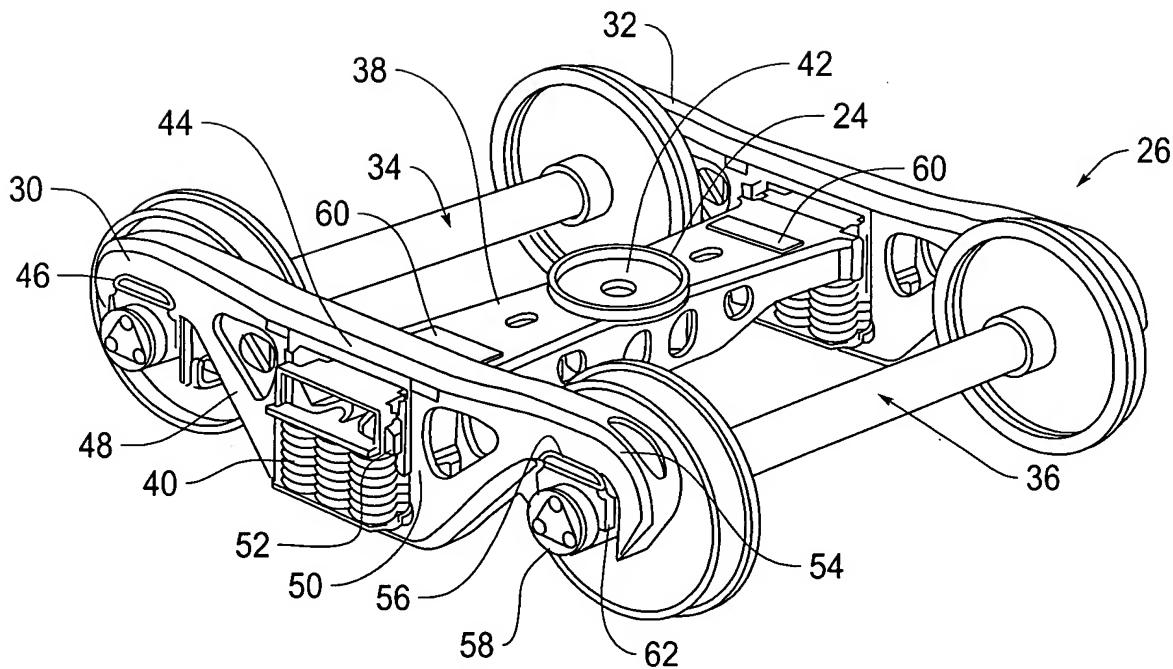


Fig. 2

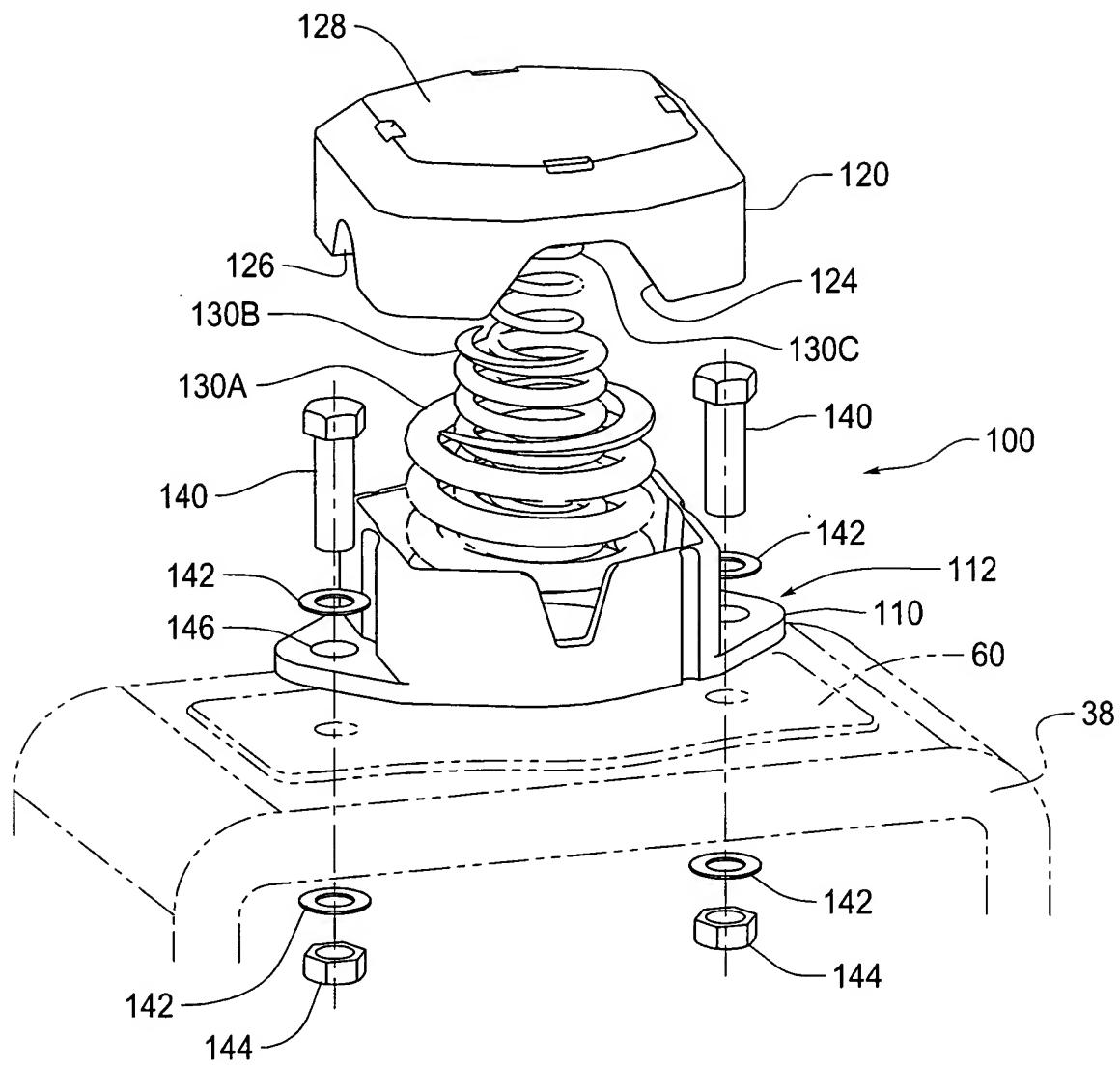


Fig. 3

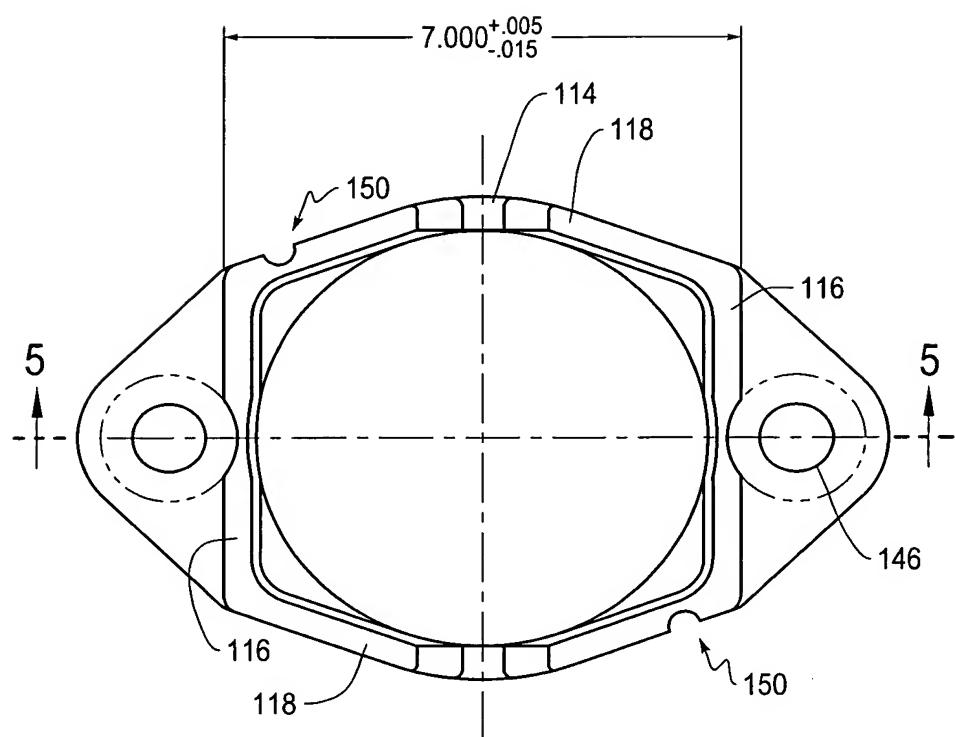


Fig. 4

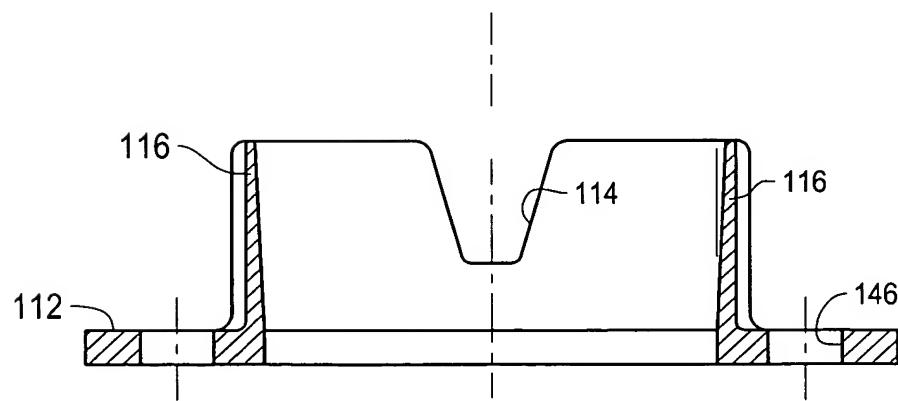
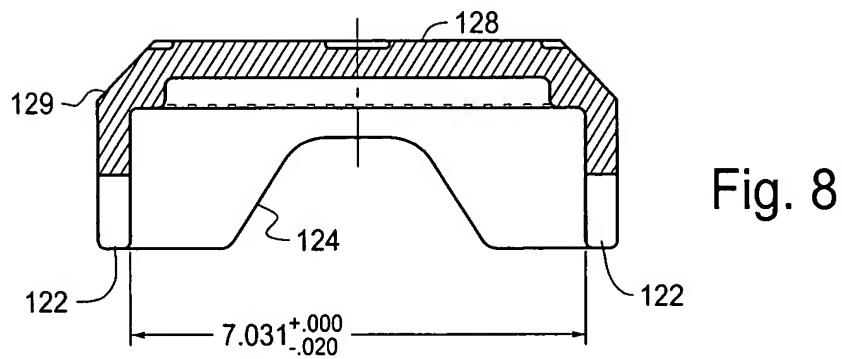
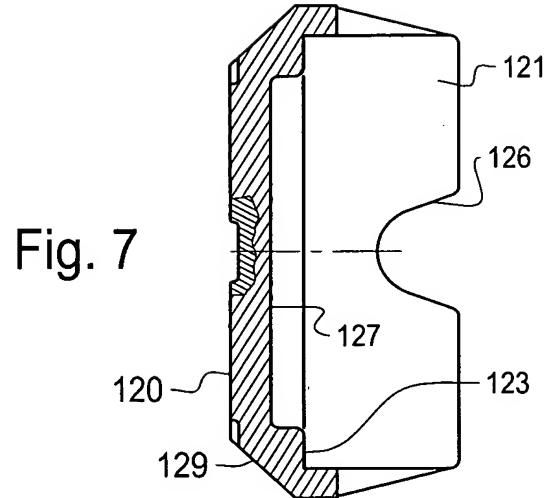
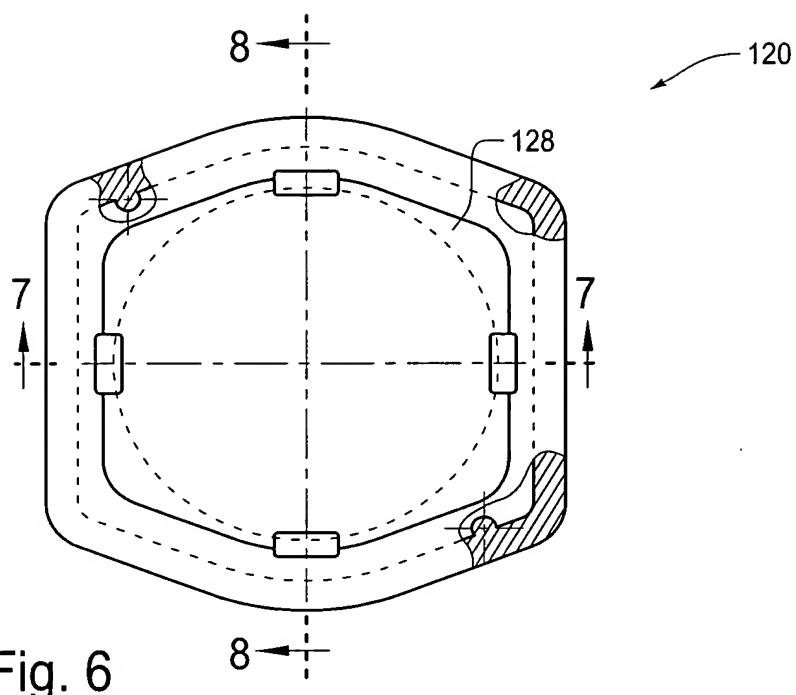


Fig. 5



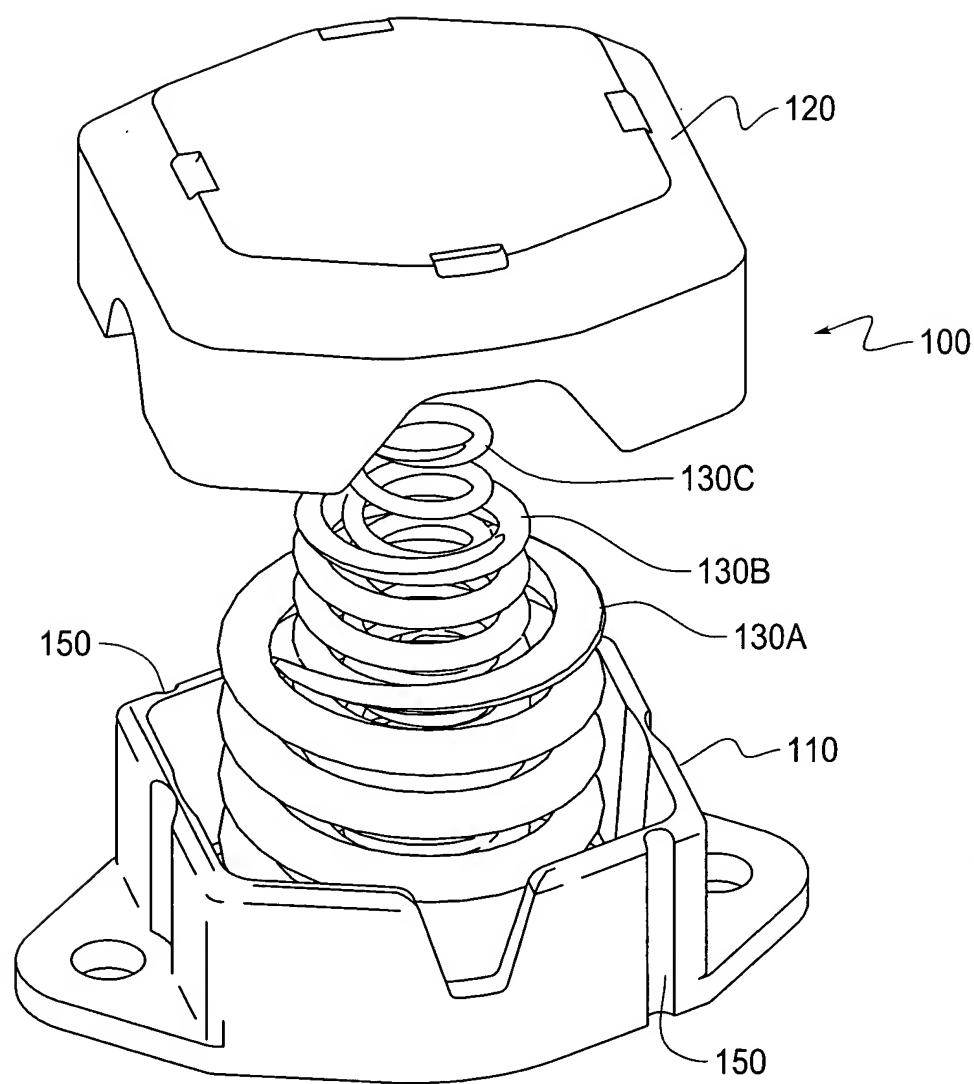


Fig. 9

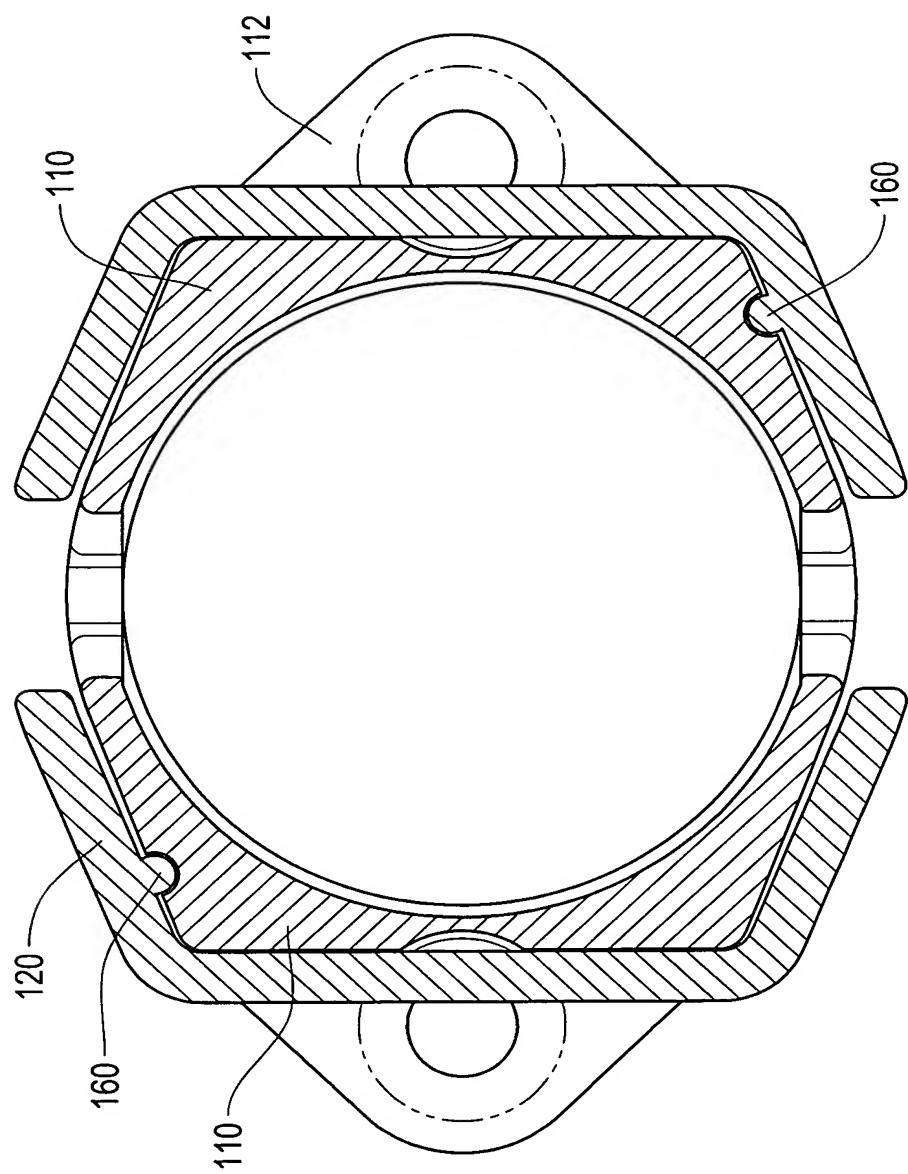


Fig. 10

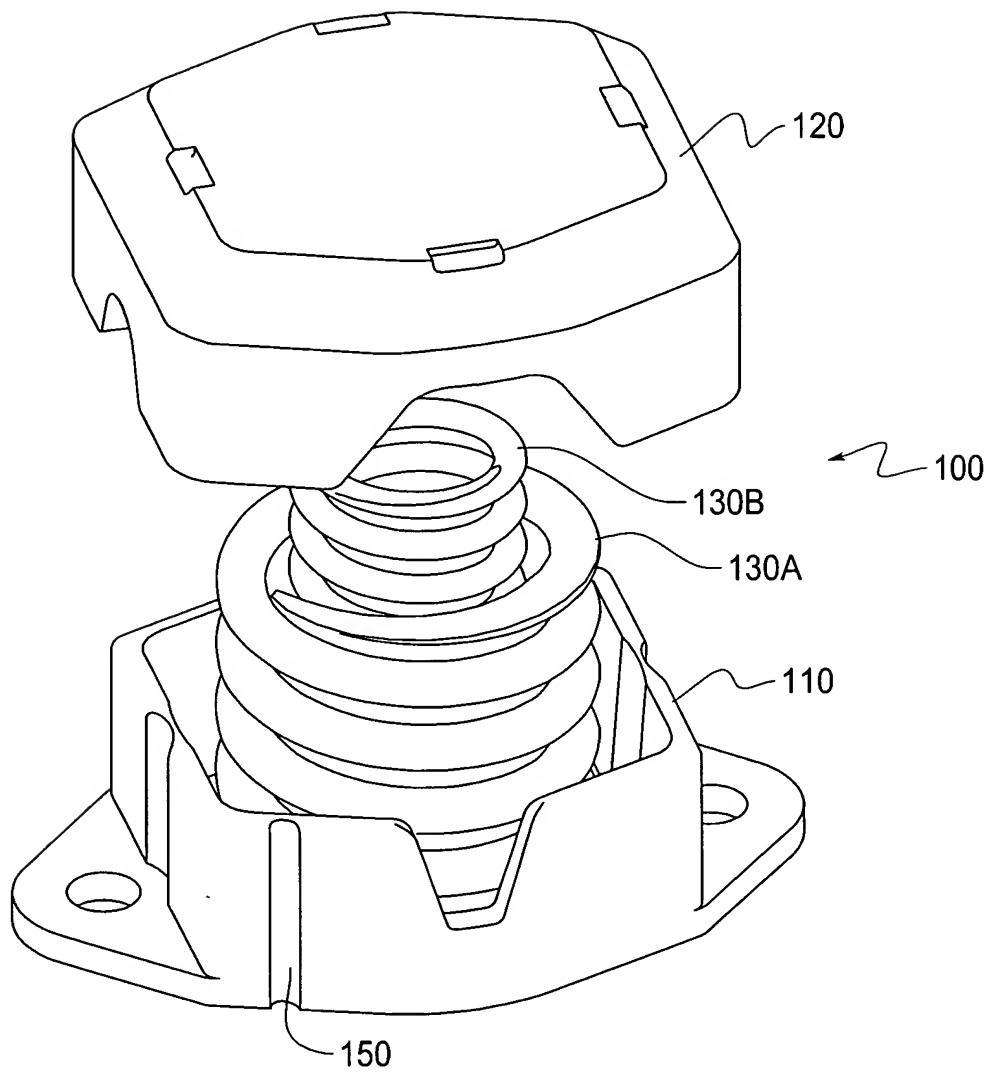


Fig. 11

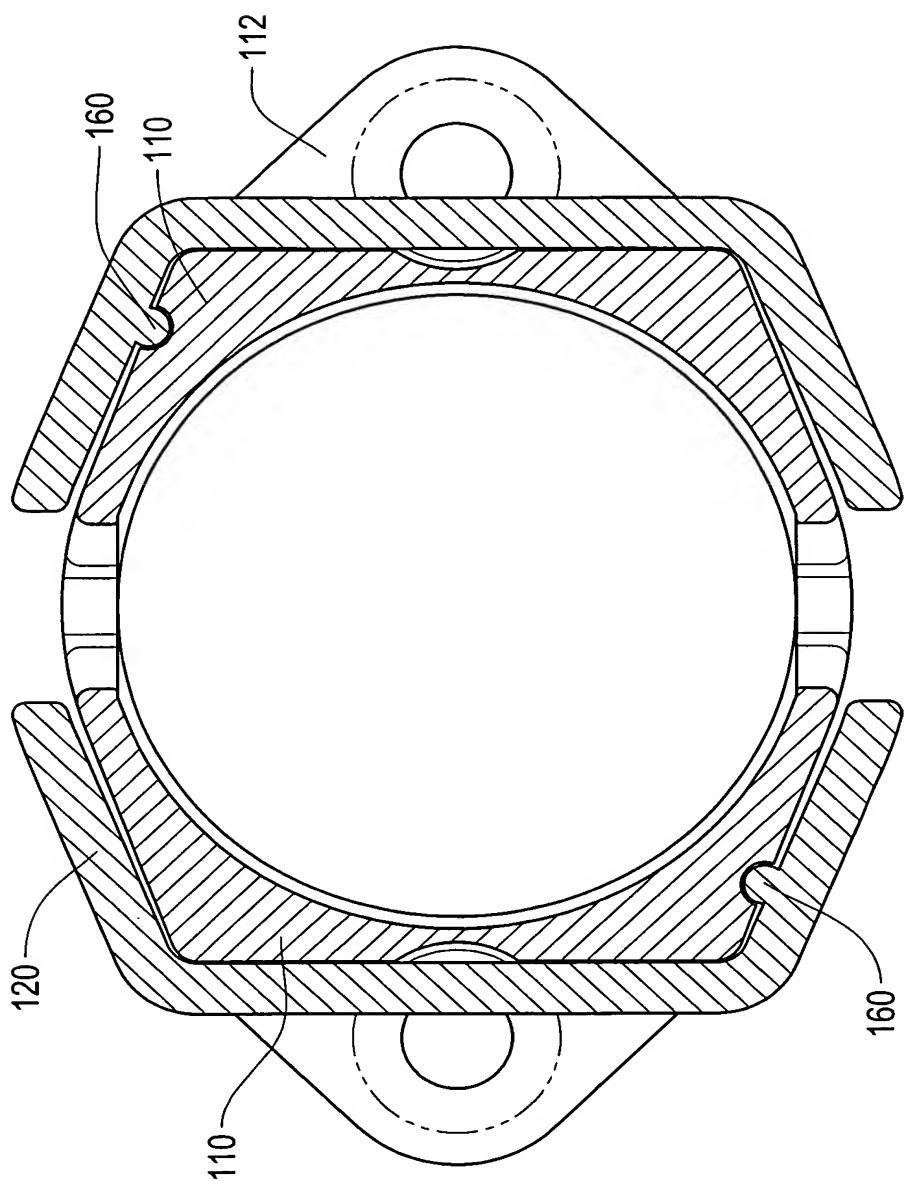


Fig. 12

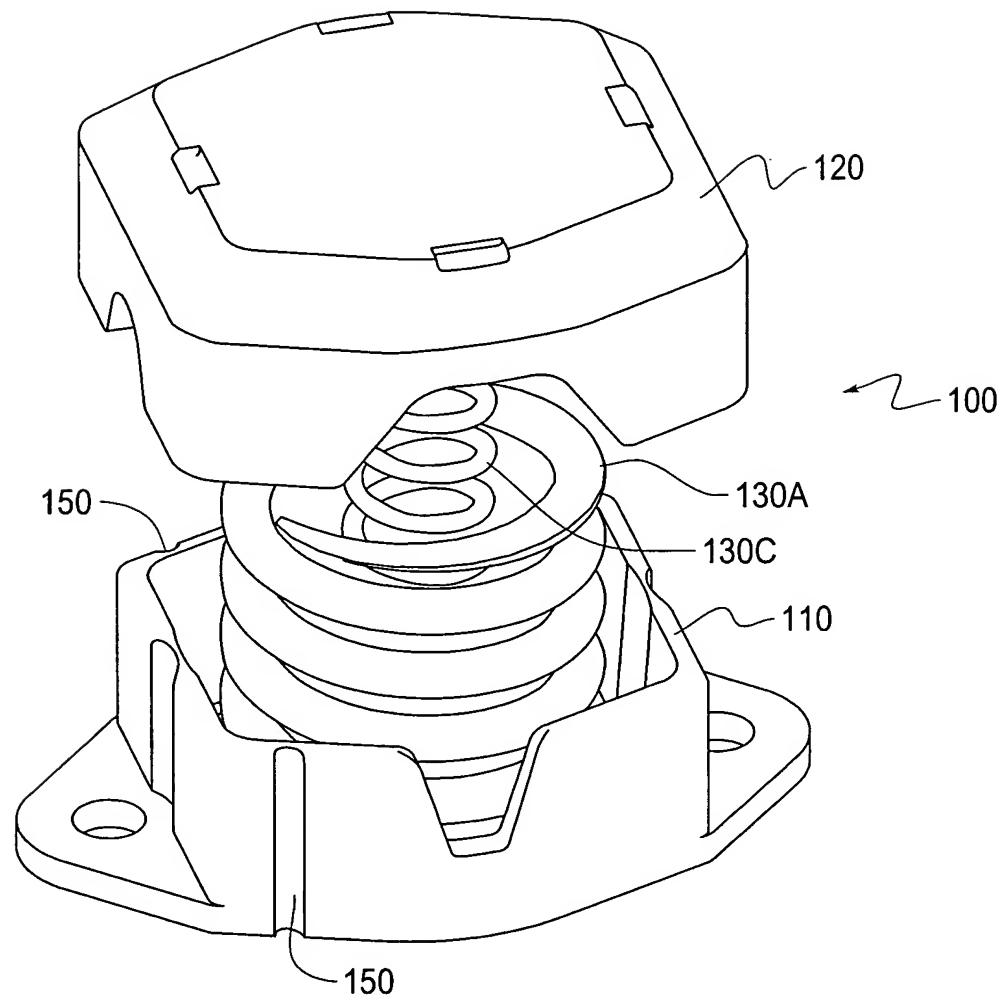


Fig. 13

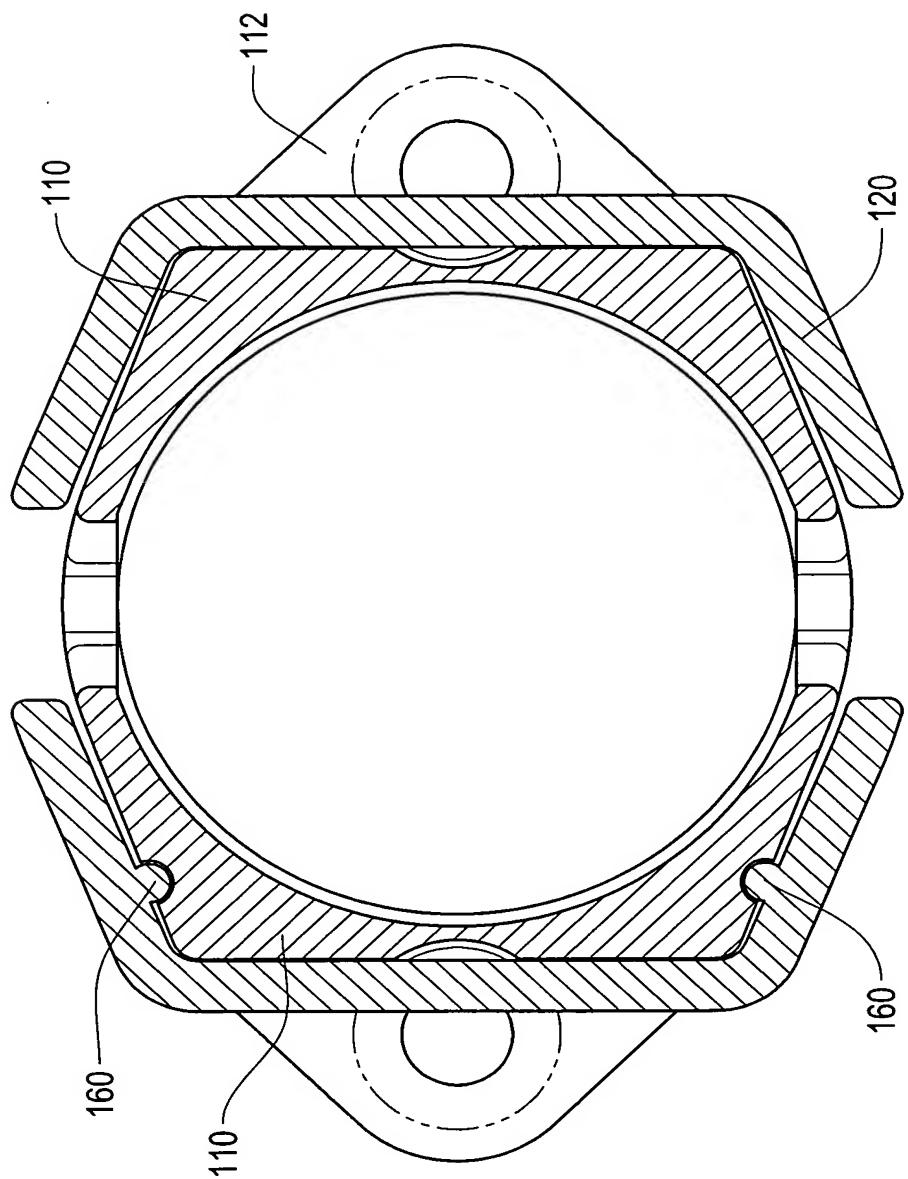


Fig. 14

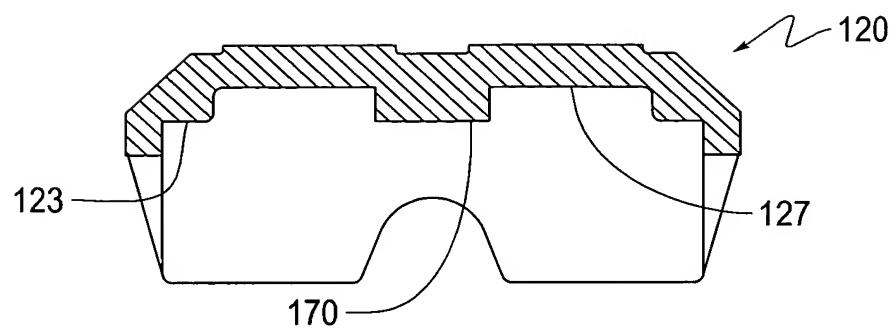


Fig. 15

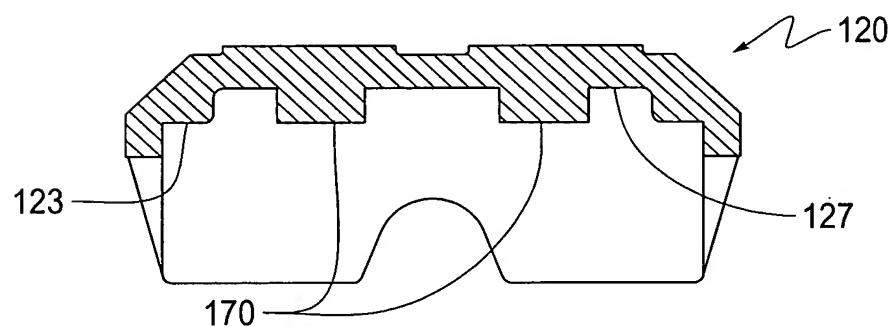


Fig. 16

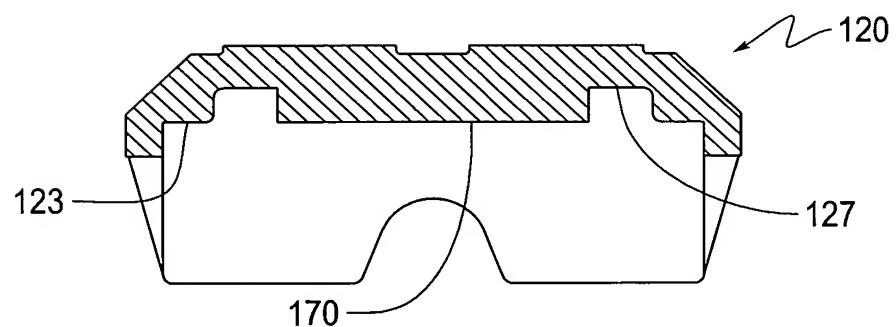


Fig. 17

SET #	SPRING	BAR DIAMETER	OUTSIDE DIAMETER	SOLID HEIGHT	FREE HEIGHT	TRAVEL	LOAD RATE	LOAD	SOLID STRESS	LOADED HEIGHT	LOAD @ HEIGHT
	130A	0.94	5.72	3.75	5.30	1.55	3607	5590	125553	4.56	2660
1	130B	0.66	3.70	3.75	5.25	1.50	2084	3125	125562	4.56	1432
	130C	0.44	2.20	3.75	5.00	1.25	1298	1623	129544	4.56	568
							6989				4660
	130A	0.94	5.72	3.75	5.30	1.55	3607	5590	125553	4.56	2660
2	130B	0.66	3.70	3.75	5.45	1.70	1563	2658	123090	4.56	1388
	130C	0.44	2.30	3.88	5.30	1.43	1059	1509	124716	4.56	781
							6229				4828
	130A	0.94	5.72	3.75	5.30	1.55	3607	5590	125553	4.50	2885
3	130B	0.66	3.70	3.75	5.25	1.50	2084	3125	126562	4.50	1563
	130C	0.44	2.30	3.88	5.30	1.43	1059	1509	124716	4.50	847
							6750				5295
	130A	0.94	5.72	3.75	5.30	1.55	3607	5590	125553	4.44	3111
4	130B	0.66	3.70	3.75	5.25	1.50	2084	3125	126562	4.44	1693
	130C	0.44	2.20	3.75	5.00	1.25	1298	1623	129544	4.44	730
							6989				5534
	130A	0.94	5.72	3.68	5.30	1.62	3705	6003	135345	4.44	3196
5	130B	0.66	3.70	3.68	5.25	1.57	2134	3350	135977	4.44	1734
	130C	0.44	2.23	3.68	5.00	1.32	1261	1665	134589	4.44	710
							7097				5639
	130A	0.88	5.70	3.68	5.72	2.04	2483	5065	137012	4.44	3184
6	130B	0.63	3.75	3.68	5.56	1.88	1525	2871	134812	4.44	1716
	130C	0.38	2.25	3.68	5.75	2.07	498	1031	129039	4.44	654
							4506				5554

Fig. 18